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Title: **JP2141484A2: LIGHTWEIGHT EXTRUDED PRODUCT OF CEMENT**

Country: **JP** Japan
 Kind: **A**

Inventor: **KATAHIRA FUJIO;
SHIRAKAWA KIYOSHI;
MIYOSHI AKIRA;
MIZUNO JUNICHI;**

Assignee: **SUMITOMO METAL IND LTD
NICHIIHA KK**
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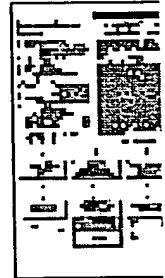
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Application Number: **JP1988000294317**

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Priority Number: **Nov. 21, 1988 JP1988000294317**

Abstract: **Purpose:** To provide the title product which is excellent in a nailing property, cuttability with a saw, fireproofness, etc., by adding a spherical thermoplastic resin foam, cellulose fibers, molding assistant, water, etc., in prescribed amts. to inorg. powder contg. cement, aggregate and a specific ratio of mica, then subjecting the mixture to kneading, extrusion molding and curing.
Constitution: The inorg. ceramics powder












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contg. the cement, the aggregate (e.g.; silica sand) and 2 to 20wt.% mica is prepd. The spherical thermoplastic resin foam (e.g.; styrene bead foam) is added at 1 to 5 pts.wt., the cellulose fibers at 3 to 10 pts.wt., the molding assistant (e.g.; carboxymethylcellulose) at 0.5 to 5 pts.wt., and the water at 35 to 70 pts.wt. to 100 pts.wt. this powder. After the mixture is uniformly kneaded, the mixture is extrusion molded and is then cured in an autoclave, by which the lightweight extruded product of the cement is produced. The lightweight extruded product of the cement obtd. in such a manner is adequately used in applications, such as external wall materials for housing, etc.
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References:







Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US5928741	1999-07-27	Andersen; Per Just	E. Khashoggi Industries, LLC	Laminate articles c manufac fashione sheets h a highly inorganic filled org polymer
	US5879722	1999-03-09	Andersen; Per Just	E. Khashoggi Industries	System f manufac sheets fr hydraulic settable composi
	US5851634	1998-12-22	Andersen; Per Just	E. Khashoggi Industries	Hinges fr highly inorganic filled con materials
				E.	Method f






	<u>US5849155</u>	1998-12-15	Gasland; Stein	Khashoggi Industries, LLC	<u>dispersir cellulose fibers in</u>
	<u>US5830305</u>	1998-11-03	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Methods molding having a inorganic filled org polymer</u>
	<u>US5830548</u>	1998-11-03	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Articles c manufac and meth for manufac laminate structure including inorganic filled she</u>
	<u>US5800647</u>	1998-09-01	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Methods manufac articles fi sheets h a highly inorganic filled org polymer</u>
	<u>US5800756</u>	1998-09-01	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Methods manufac containe other arti from hydraulic settable mixtures</u>
	<u>US5766525</u>	1998-06-16	Andersen; Per Just	E. Khashoggi Industries	<u>Methods manufac articles fi sheets o unharder hydraulic</u>







					<u>settable</u> <u>composi</u>
	<u>US5753308</u>	1998-05-19	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Methods</u> <u>manufac</u> <u>food and</u> <u>beverage</u> <u>containe</u> <u>inorganic</u> <u>aggregat</u> <u>and</u> <u>polysacc</u> <u>protein, c</u> <u>synthetic</u> <u>organic b</u>
	<u>US5738921</u>	1998-04-14	Andersen; Per Just	E. Khashoggi Industries, LLC	<u>Composi</u> <u>and metl</u> <u>for</u> <u>manufac</u> <u>sealable</u> <u>tight con</u> <u>comprisi</u> <u>inorganic</u> <u>filled ma</u>
	<u>US5720913</u>	1998-02-24	Andersen; Per Just	E. Khashoggi Industries	<u>Methods</u> <u>manufac</u> <u>sheets fr</u> <u>hydraulic</u> <u>settable</u> <u>composi</u>
	<u>US5714217</u>	1998-02-03	Andersen; Just	E. Khashoggi Industries	<u>Sealable</u> <u>tight con</u> <u>comprise</u> <u>coated</u> <u>hydraulic</u> <u>settable</u> <u>materials</u>
	<u>US5709913</u>	1998-01-20	Andersen; Khashoggi	E. Khashoggi	<u>Method c</u> <u>apparatu</u> <u>manufac</u> <u>articles c</u> <u>manufac</u>



			Per Just	Industries	from she having a inorganic filled org polymer
	<u>US5707474</u>	1998-01-13	Andersen; Per Just	E. Khashoggi, Industries	Methods manufac hinges h a highly inorganic filled ma
	<u>US5705237</u>	1998-01-06	Andersen; Per Just	E. Khashoggi Industries	Hydraulic settable containe other arti for storin dispensin and pack food or beverage
	<u>US5705238</u>	1998-01-06	Andersen; Per Just	E. Khashoggi Industries	Articles o manufac fashione sheets h a highly inorganic filled org polymer
	<u>US5705239</u>	1998-01-06	Andersen; Per Just	E. Khashoggi Industries	Molded a having a inorganic filled org polymer
	<u>US5705242</u>	1998-01-06	Andersen; Per Just	E. Khashoggi Industries	Coated f beverage containe made fro inorganic aggregat and polysacc

					<u>protein, c</u> <u>synthetic</u> <u>organic t</u>
	<u>US5702787</u>	1997-12-30	Andersen; Per Just	E. Khashoggi Industries	<u>Molded &</u> <u>having a</u> <u>inorganic</u> <u>filled ora</u> <u>polymer</u>
	<u>US5691014</u>	1997-11-25	Andersen; Per Just	E. Khashoggi Industries	<u>Coated &</u> <u>having a</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5679381</u>	1997-10-21	Andersen; Per Just	E. Khashoggi Industries	<u>Systems</u> <u>manufac</u> <u>sheets fr</u> <u>hydraulic</u> <u>settable</u> <u>composi</u>
	<u>US5676905</u>	1997-10-14	Andersen; Per Just	E. Khashoggi Industries	<u>Methods</u> <u>manufac</u> <u>articles c</u> <u>manufac</u> <u>from</u> <u>hydraulic</u> <u>settable</u> <u>mixtures</u>
	<u>US5665439</u>	1997-09-09	Andersen; Per Just	E. Khashoggi Industries	<u>Articles c</u> <u>manufac</u> <u>fashione</u> <u>hydraulic</u> <u>settable</u>
	<u>US5665442</u>	1997-09-09	Andersen; Per Just	E. Khashoggi Industries	<u>Laminate</u> <u>sheets h</u> <u>a highly</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5660903</u>		Andersen;	E. Khashoggi	<u>Sheets h</u> <u>a highly</u> <u>inorganic</u>

		1997-08-26	Per Just	Industries	<u>filled org</u> <u>polymer</u>
	<u>US5660904</u>	1997-08-26	Andersen; Per Just	E. Khashoggi Industries	<u>Sheets h</u> <u>a highly</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5658603</u>	1997-08-19	Andersen; Per Just	E. Khashoggi Industries	<u>Systems</u> <u>molding</u> <u>having a</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5654048</u>	1997-08-05	Andersen; Per Just	E. Khashoggi Industries	<u>Cementi</u> <u>packagir</u> <u>containe</u>
	<u>US5641584</u>	1997-06-24	Andersen; Per Just	E. Khashoggi Industries	<u>Highly</u> <u>insulative</u> <u>cementit</u> <u>matrices</u> <u>methods</u> <u>their</u> <u>manufac</u>
	<u>US5631052</u>	1997-05-20	Andersen; Per J.	E. Khashoggi Industries	<u>Coated</u> <u>cementit</u> <u>packagir</u> <u>containe</u>
	<u>US5631053</u>	1997-05-20	Andersen; Per J.	E. Khashoggi Industries	<u>Hinged a</u> <u>having a</u> <u>inorganic</u> <u>filled ma</u>
	<u>US5631097</u>	1997-05-20	Andersen; Per J.	E. Khashoggi Industries	<u>Laminate</u> <u>insulation</u> <u>barriers l</u> <u>a cemen</u> <u>structura</u> <u>matrix ar</u> <u>methods</u> <u>their</u> <u>manufac</u>

	<u>US5626954</u>	1997-05-06	Andersen; Per J.	E. Khashoggi Industries	<u>Sheets n</u> <u>from mol</u> <u>hydraulic</u> <u>settable</u> <u>materials</u>
	<u>US5614307</u>	1997-03-25	Andersen; Per J.	E. Khashoggi Industries	<u>Sheets n</u> <u>from mol</u> <u>hydraulic</u> <u>settable</u> <u>composi</u>
	<u>US5582670</u>	1996-12-10	Andersen; Per J.	E. Khashoggi Industries	<u>Methods</u> <u>manufac</u> <u>sheets h</u> <u>a highly</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5580409</u>	1996-12-03	Andersen; Per J.	E. Khashoggi Industries	<u>Methods</u> <u>manufac</u> <u>articles c</u> <u>manufac</u> <u>from</u> <u>hydraulic</u> <u>settable</u>
	<u>US5580624</u>	1996-12-03	Andersen; Per J.	E. Khashoggi Industries	<u>Food and</u> <u>beverage</u> <u>containe</u> <u>made fro</u> <u>inorganic</u> <u>aggregat</u> <u>and</u> <u>polysacc</u> <u>protein, c</u> <u>synthetic</u> <u>organic</u> <u>binders,</u> <u>the meth</u> <u>manufac</u> <u>such</u> <u>containe</u>
					<u>Methods</u>

	<u>US5549859</u>	1996-08-27	Andersen; Per J.	E. Khashoggi Industries	<u>extrusion</u> <u>novel, hi</u> <u>plastic a</u> <u>moldable</u> <u>hydraulic</u> <u>settable</u> <u>composi</u>
	<u>US5545297</u>	1996-08-13	Andersen; Per J.	E. Khashoggi Industries	<u>Methods</u> <u>continuo</u> <u>placing</u> <u>filaments</u> <u>hydraulic</u> <u>settable</u> <u>composi</u> <u>being ex</u> <u>into artic</u> <u>manufac</u>
	<u>US5545450</u>	1996-08-13	Andersen; Per J.	E. Khashoggi Industries	<u>Molded &</u> <u>having a</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5543186</u>	1996-08-06	Andersen; Per J.	E. Khashoggi Industries	<u>Sealable</u> <u>tight, thir</u> <u>walled</u> <u>containe</u> <u>made fro</u> <u>hydraulic</u> <u>settable</u> <u>materials</u>
	<u>US5508072</u>	1996-04-16	Andersen; Per J.	E. Khashoggi Industries	<u>Sheets h</u> <u>a highly</u> <u>inorganic</u> <u>filled org</u> <u>polymer</u>
	<u>US5506046</u>	1996-04-09	Andersen; Per J.	E. Khashoggi Industries	<u>Articles c</u> <u>manufac</u> <u>fashione</u> <u>sheets h</u> <u>a highly</u> <u>inorganic</u>

					<u>filled org</u> <u>polymer</u>
	<u>US5453310</u>	1995-09-26	Andersen; Per J.	E. Khashoggi Industries	<u>Cementi</u> <u>materials</u> <u>use in</u> <u>packagir</u> <u>containe</u> <u>their met</u> <u>of manuf</u>
	<u>US5385764</u>	1995-01-31	Andersen; Per J.	E. Khashoggi Industries	<u>Hydraulic</u> <u>settable</u> <u>containe</u> <u>other arti</u> <u>for storin</u> <u>dispensin</u> <u>and pack</u> <u>food and</u> <u>beverage</u> <u>methods</u> <u>their</u> <u>manufac</u>

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<p>(30) Priority:</p> <p>(43) Date of application publication: 30.05.90</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: SUMITOMO M IND LTD NICHIIA KK</p> <p>(72) Inventor: KATAHIRA FU SHIRAKAWA F MIYOSHI AKI MIZUNO JUNI</p> <p>(74) Representative:</p>
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(54) **LIGHTWEIGHT EXTRUDED PRODUCT OF CEMENT**

(57) Abstract:

PURPOSE: To provide the title product which is excellent in a nailing property, cuttability with a saw, fireproofness, etc., by adding a spherical thermoplastic resin foam, cellulose fibers, molding assistant, water, etc., in

prescribed amts. to inorg. powder contg. cement, aggregate and a specific ratio of mica, then subjecting the mixture to kneading, extrusion molding and curing.

CONSTITUTION: The inorg. ceramics powder contg. the cement, the aggregate (e.g.; silica sand) and 2 to 20wt.% mica is prepd. The spherical thermoplastic resin foam (e.g.; styrene bead foam) is added at 1 to 5 pts.wt., the cellulose fibers at 3 to 10 pts.wt., the molding assistant (e.g.; carboxymethylcellulose) at 0.5 to 5 pts.wt., and the water at 35 to 70 pts.wt. to 100 pts.wt. this powder. After the mixture is uniformly kneaded, the mixture is extrusion molded and is then cured in an autoclave, by which the lightweight extruded product of the cement is produced. The lightweight extruded product of the cement obtd. in such a manner is adequately used in applications, such as external wall materials for housing, etc.

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